

What is claimed is:

1. A method for repair of a joint comprising the steps of:
removing a portion of a bone having natural soft tissue attached thereto;
implanting an implant within the remaining bone leaving an exposed surface of the implant;
preparing a surface of the removed portion of bone to provide the surface with a surface feature to mechanically interlock with a complementary feature defined on the exposed surface of the implant; and
mechanically engaging the surface feature of the removed portion of bone with the complementary feature of the implant when the implant is within the remaining bone while the natural soft tissue is still attached to the removed portion of bone.
2. The method for repair of a joint according to claim 1, wherein:
the complementary feature of the implant includes a female feature; and
the step of preparing a surface includes defining a male surface feature on the removed portion of bone.
3. The method for repair of a joint according to claim 1, wherein the surface feature and the complementary feature define a dovetail joint.
4. The method for repair of a joint according to claim 1, wherein:
the natural soft tissue is a ligament or a tendon; and
the surface feature and complementary feature are configured to maintain the ligament or tendon in tension when the removed portion of bone is mechanically engaged to the implant.
5. The method for repair of a joint according to claim 4, wherein the surface feature and the complementary feature define opposing faces that diverge away from the intact attachment point of the ligament or tendon.

6. The method for repair of a joint according to claim 5, wherein the surface feature and the complementary feature define a dovetail joint.
7. The method for repair of a joint according to claim 1, further comprising the step of introducing bone cement between the removed portion of bone and the exposed surface implant.
8. The method for repair of a joint according to claim 1, further comprising the step of providing the exposed surface of the implant with a surface configured to promote bone tissue ingrowth.
9. The method for repair of a joint according to claim 1, wherein the joint is a hip joint, the removed portion of bone is the trochanter and the remaining bone is the remainder of the femur.
10. The method for repair of a joint according to claim 1, further comprising the step of fixing the removed portion of bone to the implant using a mechanical fastener.
11. The method for repair of a joint according to claim 10, wherein the mechanical fastener includes at least one screw configured to pass through the removed portion of bone and engage the implant.
12. The method for repair of a joint according to claim 10, wherein the mechanical fastener includes at least one cerclage wire configured to encircle at least a portion of the removed portion of bone and engage the prosthesis.
13. An implant for repair of a joint comprising:
a stem configured for implantation within a bone of the joint; and

a head configured to replace a portion of the articulating aspect of the bone, said head including a surface defining a mechanical engagement feature configured to engage a complementary feature formed in a removed portion of the articulating aspect of the bone.

14. The implant according to claim 13, wherein the mechanical engagement feature includes diverging opposing faces.

15. The implant according to claim 13, wherein the mechanical engagement feature is the female portion of a dovetail joint.

16. The implant according to claim 13, wherein at least a portion of said surface of said head is configured for bone tissue ingrowth.

17. The implant according to claim 13, further comprising at least one screw and at least one screw bore defined in said surface of said head, said screw sized to pass through the removed portion of bone when the removed portion is engaged to said head.

18. The implant according to claim 13, further comprising at least one cerclage cable engaged to said implant and configured to encircle a portion of the removed portion of bone when the removed portion of bone is engaged to said head.